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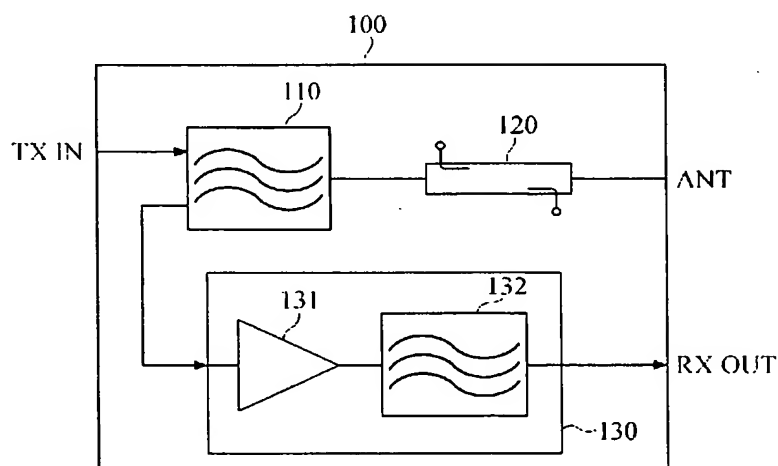
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(54) Title: APPARATUS FOR IMPROVING RECEPTION SENSITIVITY OF BASE TRANSCEIVER STATION



(57) Abstract: In a transmission/reception apparatus in a base transceiver station (BTS), a commercial surface acoustic wave filter (SAW filter) can be used for suppressing transmission signals interfering with the reception path. By suppressing the interference signals, the reception sensitivity can be improved. In one embodiment of the present invention, an apparatus for processing transmission/reception signals in a BTS, comprises: a coupler connected to an antenna for providing reception signals; a duplexer having three terminals for routing the reception signals at a first terminal to a second terminal of the duplexer, and routing transmission signals at a third terminal of the duplexer to the first terminal, the coupler being further operative to provide the transmission signals at the first terminal to the antenna; and a narrow band low-noise amplifier connected to the second terminal for amplifying the reception signals from the second terminal, the narrow band low-noise amplifier being operative to suppress out-of-band interference signals such that reception sensitivity can be improved.